

U.S. Department of Transportation

Federal Aviation Administration





September 28, 1997 - October 04, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- II Domestic Service Difficulty Report
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model

ISSUE 97-40

VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

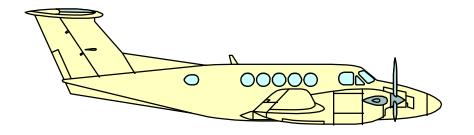
Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029 Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

SIGNI	FICANT OC	CURRENCE	REPORT				9/28/97 TO 10/4/97	7 ISSUE	97-40	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DA	
5610	47938	GROB				CANOPY	OPENED	1400	9/5/97	
	3841K87	G103ATWINII					COCKPIT		97ZZZX4	192
						NLOCK AND CANOPY OP O HOLD LATCH CLOSED.	ENED IN-FLIGHT BREAKI	NG THE REA	AR HINGE AN	D GLASS.
2510	2269Q	PIPER				FRAME ASSY	BROKEN	4775	8/29/97	
	287725189	PA28140				79536000	COCKPIT		97ZZZX4	203
	VERTICAL SUPPO	· · · · · · · · · · · · · · · · · · ·	EAT TRACK CLAMP.				RONT POINTS WHERE SEA USE: THE STRESS OF MAN			
3230	4484T	PIPER				LINK ASSY	ROD END FAILED		3/12/97	
	347250110	PA34200				9582900	NLG		97ZZZX4	188
				. ,	,		READED PORTION. NLG (THIS IS DUE TO DESIGN (G ROLL-
7320	34ME	PIPER	CONT			FITTING	BROKEN		8/1/97	
VIB3	347870045	PA34200T	TSIO360*		6405636A1	630119	LT ENGINE		97ZZZX4	207
	FROM COWLING		REMOVED AND REP	LACED BROKEN FIT	ΓINGS. LEAK AND (GHT ON OTHER ENGINE T APPEARED DAMAGED BY			

Run Date

10-Oct-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: SEPTEMBER 28, 1997 TO OCTOBER 04, 1997

PART NAME					YEAR		
PART NUMBER	ACFT MODEL	Total	90	91	92	97	
FITTING							
630119	PA34200T	1	-	-	-	1	
TOTAL -		1				1	
FRAME ASSY							
79536000	PA28140	1	-	-	-	1	
TOTAL -		1				1	
LINK ASSY							
9582900	PA34200	5	1	1	2	1	
	PA34200T	1	-	-	-	1	
TOTAL -		6	1	1	2	2	

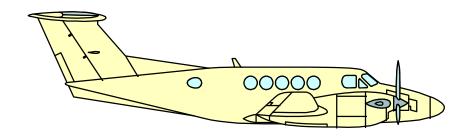
END OF REPORT

1

Page:



DOMESTIC SERVICE DIFFICULTY REPORT



		. ~			~~	RAFT		TDTD		
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. D	
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	ONT NO
3510	8093W	ВЕЕСН				HOSE	SPLIT	1861	8/1/97	
	BB1396	B200				101380491	OXYGEN SYSTEM		97ZZZX	4200
		N LEFT HEADLINER AF ED. RECOMMEND A RE				M WAS ACTIVATED. HOS	SE IS A SHORT FLEXIBLE	E HOSE THA	AT IS VERY TV	/ISTED
3213	5316R	CESSNA				AXLE FITTING	CRACKED	5211	9/9/97	
	172RG0053	172RG				22411001	RT MLG		97ZZZX	4190
	2.500 INCHES LO		THE WEB SECTION A	BOVE THE BOLT HO	LES. SECOND CRAC	HOLES, AND PARALLEL T CK LOCATED IN THE LOW T THE BOLT HOLES.				
3231	766EA	CESSNA				BELLCRANK	FAILED	14709	9/15/97	
OEZA	402B0401	402B				08411066	RT MLG		97ZZZX	4211
	RIGHT MAIN GEA	AR DOOR DID NOT CLO	SE WHEN GEAR SEL	ECTED UP. FOUND B	ELLCRANK P/N 084	1106-6 CRACKED INTO TV	WO PIECES. SUSPECT FA	TIGUE CAU	SED THE FAI	LURE.
		an an				CANODY	OPENED	1.400	9/5/97	
5610	47938	GROB				CANOPY	OPENED	1400	9/5/97	
5610	47938 3841K87	GROB G103ATWINII				CANOPY	COCKPIT	1400	9/3/97 97ZZZX	4192
5610 ****	3841K87 BOUNCING ON T	G103ATWINII AKEOFF ROLL AND TU				CANOPY NLOCK AND CANOPY OPI HOLD LATCH CLOSED.	COCKPIT		97ZZZX	
	3841K87 BOUNCING ON T	G103ATWINII AKEOFF ROLL AND TU				NLOCK AND CANOPY OPI	COCKPIT		97ZZZX	
****	3841K87 BOUNCING ON T IT DID NOT BREA	G103ATWINII AKEOFF ROLL AND TU AK LOOSE FROM THE G				NLOCK AND CANOPY OPI HOLD LATCH CLOSED.	COCKPIT ENED IN-FLIGHT BREAK		97ZZZX EAR HINGE AN	ND GLASS.
****	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE GOULSTM 112 CAR MICROSWITCH INSTAR AFT. THIS PREVE	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	PE LOCK SPRING TO OUNTING BRACKE WITCH WHICH WA	NLOCK AND CANOPY OPI O HOLD LATCH CLOSED. SWITCH	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT	ING THE RE H HOSE CLA	97ZZZX EAR HINGE AN 8/15/97 97ZZZX	ND GLASS. 4191 D BRACKET
****	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE GOULSTM 112 CAR MICROSWITCH INSTAR AFT. THIS PREVE	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	PE LOCK SPRING TO OUNTING BRACKE WITCH WHICH WA	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF MAKING CONTACT WIT	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT	ING THE RE H HOSE CLA	97ZZZX EAR HINGE AN 8/15/97 97ZZZX	ND GLASS. 4191 D BRACKET
***** 3260 3230	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND M	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE GOULSTM 112 CAR MICROSWITCH INSTAR AFT. THIS PREVENICROSWITCH TO PROF	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	OUNTING BRACKE WITCH WHICH WAS RACKET ADJUSTMI	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF S MAKING CONTACT WIT ENT IN MM. BRACKET NO	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT H PAINTED SURFACE OF	ING THE RE H HOSE CLA N TOP OF NO	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI	4191 D BRACKET DJUSTED
*****	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND N 78384 500B1297112	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE G GULSTM 112 CAR MICROSWITCH INSTEAR AFT. THIS PREVE MICROSWITCH TO PROF	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	OUNTING BRACKE WITCH WHICH WA: RACKET ADJUSTMI	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF SEMAKING CONTACT WITE OF THE PROPERTY OF THE PARKET NOT THE PAR	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT H PAINTED SURFACE OF	ING THE RE H HOSE CLA N TOP OF NO	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI	4191 D BRACKET DJUSTED
***** 3260 3230	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND N 78384 500B1297112	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE G GULSTM 112 CAR MICROSWITCH INSTEAR AFT. THIS PREVENTION PROFESSION OF THE STATE O	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	OUNTING BRACKE WITCH WHICH WA: RACKET ADJUSTMI	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF SEMAKING CONTACT WITE OF THE PROPERTY OF THE PARKET NOT THE PAR	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT H PAINTED SURFACE OF	ING THE RE H HOSE CLA N TOP OF NO	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI	4191 D BRACKET DJUSTED
***** 3260 3230 HXUA	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND N 78384 500B1297112	G103ATWINII CAKEOFF ROLL AND TURAK LOOSE FROM THE G GULSTM 112 CAR MICROSWITCH INSTEAR AFT. THIS PREVE MICROSWITCH TO PROF GULSTM 500B ARM CLEVIS SEPARATE	TALLED TO FULL FO	ORWARD LIMIT ON MISTMENT OF MICROS	OUNTING BRACKE WITCH WHICH WA: RACKET ADJUSTMI	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF MAKING CONTACT WITH ENT IN MM. BRACKET NO CLEVIS ED12526	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG ON ENGINE MOUNT WIT H PAINTED SURFACE OF STORY SHOWN IN PARTS MA	ING THE RE H HOSE CLA N TOP OF NO	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI 9/12/97 97ZZZX	4191 D BRACKET DJUSTED 4199
***** 3260 3230 HXUA	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND M 78384 500B1297112 MLG RETRACT A AS REQUIRED, CLOOSE INSULAT INSPECT THROU IN THE WING TO	G103ATWINII CAKEOFF ROLL AND TU AK LOOSE FROM THE G GULSTM 112 CAR MICROSWITCH INS' FAR AFT. THIS PREVE MICROSWITCH TO PROF GULSTM 500B ARM CLEVIS SEPARATE LUSCOM 8A ONDUCTED THE WING ION AND URINE STAINS GH THE STRUT HOLE A	TALLED TO FULL FOR INTED PROPER ADJUPER LOCATION. NO SERVICE S	DRWARD LIMIT ON M ISTMENT OF MICROS INFORMATION ON BI SCOMBE METAL WIN LY REMOVED WITH C RD ROOT AREA HEAR ROOF SKIN HAD BEE	OUNTING BRACKE WITCH WHICH WA: RACKET ADJUSTMI OZONE 710015 G IAW APPENDIX TO COAT HANGERS AND A 'POP' IN THE WINDEFORMED AT TO	NLOCK AND CANOPY OPI D HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF MAKING CONTACT WITH ENT IN MM. BRACKET NO CLEVIS ED12526	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG DN ENGINE MOUNT WIT H PAINTED SURFACE OF OT SHOWN IN PARTS MA SEPARATED RETRACT ARM SEPARATED WING ID NO INTERGRANULAR E WING WITH A HOSE. WECTED, THOUGHT IT MICE	H HOSE CLANTOP OF NO ANUAL. 21000 C CORROSIO WHILE LIFTI GHT BE OIL	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI 9/12/97 97ZZZX 8/1/97 97ZZZX ON. DID FIND S NG THE WING CANNING OF	4191 D BRACKET DJUSTED 4199 4202 SOME G TO THE SKINS
***** 3260 3230 HXUA	3841K87 BOUNCING ON T IT DID NOT BREA 1195J 195 FOUND NOSE GE INSTALLED TOO BRACKET AND M 78384 500B1297112 MLG RETRACT A AS REQUIRED, CLOOSE INSULAT INSPECT THROU IN THE WING TO	G103ATWINII CAKEOFF ROLL AND TUL AK LOOSE FROM THE G GULSTM 112 CAR MICROSWITCH INS' FAR AFT. THIS PREVE MICROSWITCH TO PROF GULSTM 500B ARM CLEVIS SEPARATE LUSCOM 8A ONDUCTED THE WING ION AND URINE STAINS GH THE STRUT HOLE A P. LATER INSPECTION	TALLED TO FULL FOR INTED PROPER ADJUPER LOCATION. NO SERVICE S	DRWARD LIMIT ON M ISTMENT OF MICROS INFORMATION ON BI SCOMBE METAL WIN LY REMOVED WITH C RD ROOT AREA HEAR ROOF SKIN HAD BEE	OUNTING BRACKE WITCH WHICH WA: RACKET ADJUSTMI OZONE 710015 G IAW APPENDIX TO COAT HANGERS AND A 'POP' IN THE WINDEFORMED AT TO	NLOCK AND CANOPY OPID HOLD LATCH CLOSED. SWITCH ISE13 T. BRACKET MOUNTED OF SMAKING CONTACT WITH ENT IN MM. BRACKET NOT CLEVIS ED12526 SPAR CAPSTRIP TO FAA AD96-24-17. FOUND BY SPRAYING OUT THE ING THAT WAS NOT EXPI	COCKPIT ENED IN-FLIGHT BREAK MISADJUSTED NLG DN ENGINE MOUNT WIT H PAINTED SURFACE OF OT SHOWN IN PARTS MA SEPARATED RETRACT ARM SEPARATED WING ID NO INTERGRANULAR E WING WITH A HOSE. WECTED, THOUGHT IT MICE	H HOSE CLANTOP OF NO ANUAL. 21000 C CORROSIO WHILE LIFTI GHT BE OIL	97ZZZX EAR HINGE AN 8/15/97 97ZZZX AMPS. FOUNI OSE GEAR. AI 9/12/97 97ZZZX 8/1/97 97ZZZX ON. DID FIND S NG THE WING CANNING OF	ALOSS. 4191 D BRACKET DJUSTED 4199 4202 SOME G TO THE SKINS

REAR BAGGAGE FLOOR DAMAGED FROM ABUSE LOADING FREIGHT.

DOME	STIC SERV	ICE DIFFICU	LTY REPO	RT SUMMA	RY - AIRC	RAFT	9/28/97 TO 10/4/97	7 ISSUE	97-40	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA'	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	NT NO
2510	2269Q	PIPER				FRAME ASSY	BROKEN	4775	8/29/97	
	287725189	PA28140				79536000	COCKPIT		97ZZZX42	03
****	VERTICAL SUPPO		EAT TRACK CLAMP.			BOTH LEFT AND RIGHT FR 20 YEARS. SUSPECT CAU				
3233	237MA	PIPER			WIEBEL	ACTUATOR	FAULTY	2961	8/1/97	
	31P8414037	PA31P350				21151	MLG		97ZZXX42	05
		INDICATION OF UNW EST FLIGHT OK, NO PI		AR EXTENSION. AF	TER TROUBLESHO	OTING HYDRAULIC SYSTE	EM, FOUND RT MAIN ACT	ΓUATOR O-F	RING AND SCR	APER
7160	4365T	PIPER	LYC			VALVE	SEAL MISSING		8/25/97	
	327200019	PA32260	O540E4B5			651427	CARB AIR BOX		97ZZZX41	87
	PLATES WITH SOM	ME FELT PROTRUDING	TO PROVIDE SEAL.	THE PROTRUDING F	PART WAS ALMOST	THAT WAS 'HANGING ON'. Γ ALL MISSING. THE POTE EXCEPT FOR SEALING.				
3230	4484T	PIPER				LINK ASSY	ROD END FAILED		3/12/97	
	347250110	PA34200				9582900	NLG		97ZZZX41	88
****				,	,	ING AND PARTING IN THR EEN LIGHT WILL BE ON.				ROLL-

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	.TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	ONT NO
2913	599BK	SNIAS				PUMP	WORN SPLINE	5640	9/15/97	
	2735	AS350BA				5026780	HYDRAULIC SYSTE	M	97 ZZZ X42	214
		,		HYDRAULIC HORN	CAME ON. PILOT M	IADE A PRECAUTIONARY	LANDING AT AIRPORT	ΓERMINAL.	INSPECTED	
	HYDRAULIC PUN	MP AND FOUND WORN	SPLICE. REMOVED I	HYDRAULIC PUMP AS	SSY AND INSTALLE	D SERVICEABLE HYDRAI	JLIC PUMP ASSY.			
6220	4AK	AP AND FOUND WORN	SPLICE. REMOVED I	HYDRAULIC PUMP AS	SSY AND INSTALLE	D SERVICEABLE HYDRAI STOP BEARING	JLIC PUMP ASSY. FAILED	2193	9/5/97	
6220			SPLICE. REMOVED I	HYDRAULIC PUMP AS	SSY AND INSTALLE			2193	9/5/97 97ZZZX42	213

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
7414	11308	CESSNA	CONT		SLICK	DRIVE GEAR	TEETH STRIPPED	98	9/9/97
	15075317	150L	O200A		4201	36066	RT MAG		97ZZZX4204
	NOT TO TAKE OF		LANE OVER TO MA		, ,		TO BACKFIRE WHILE RUI TEETH MISSING. ENGINE		
7314	545SS	DIAMON	ROTAX		ROTAX	PUMP	LINE CRACKED	299	9/5/97
	10118	DA20A1	ROTAX912			996592	ENGINE		97ZZZX4189
		FUEL PUMP LINE CRAC TO FACILITATE ROUTI			L DRIPPING INTO L	OWER COWL AREA. CRA	ACK IS AT BEND IN LINE V	WHERE IT M	EETS PUMP. APPEARS
8530	2FOR	HELIO	LYC			PISTON PIN	BROKEN	499	8/15/97
	1244	H295	GO480G1D6				CYLINDER NR 5		97ZZZX4215
	CYLINDERS REM		NSPECT FOR BATCH				RCRAFT WAS REMOVED ERE NOT CLEARLY VISIBI		
7414	56464	MAULE	LYC		BENDIX	MAGNETO	CASE CRACKED	3158	9/11/97
	7416C	M6235	IO540W1A5		D6LN3000	1068256011	ENGINE	388	97ZZZX4209
	MAGNETO CASE	BROKEN AT TOP HOLI	D-DOWN LOCATION.	. DISCREPANCY DISC	COVERED DURING 1	00-HOUR INSPECTION.			
8530	9595M	MOONE	LYC			COVER PLATE	DISPLACED		8/1/97
	670172	M20F	IO360A1A			7510	NR 1 INTAKE	75	97ZZZX4212
			. ,			SHAFT ON NR 1 CYLINDI ICAL RE-CHECK OF COVI	ER HAD MOVED OUT OF I ER PLATE NUT TORQUE.	POSITION DU	JE TO LOSS OF COVER
8520	252MA	PIPER	LYC			BEARING	FLAKED	32	9/9/97
EIRR	31P33	PA31P	TIGO541E1A			81619401	ENGINE		97ZZZX4206
	ENGINE REMOVE BOND TO BEARE		ARING MATERIAL IN	OIL SCREEN. DISAS	SEMBLED, FOUND A	ABOUT 1.5 SQUARE INCH	ES OF MATERIAL FLAKE	O OFF OF BE	ARING. SUSPECT POOR
	42.65TD	DIDED	LYC			SHROUD TUBE	FRACTURED		0/05/05
8530	4365T	PIPER	1,10,			SUKOOD LOBE	FRACIURED		8/25/97

AFTER RUN-UP, OIL FILM NOTED ON LEFT SIDE OF ENGINE. OIL CAME FROM DENT IN PUSH ROD SHROUD TUBE WHICH WAS FOUND COMPLETELY FRACTURED AT DENT LOCATION. PUSH ROD HAD APPARENTLY RUBBED SHROUD AND CAUSED THE FRACTURE. DENT WAS ABOUT .0937 INCH DEEP. OTHER SHROUD TUBES HAD MINOR DENTS APPARENTLY LONG-

PA32260

O540E4B5

STANDING. 1100 HRS SMOH/POTENTIAL FOR EXCITING MOMENTS IF NOT CORRECTED.

327200019

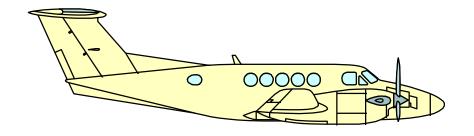
97ZZZX4184

NR 2 CYLINDER

DOME	STIC SERV	ICE DIFFICU	NES	9/28/97 TO 10/4/97	ISSUE	97-40	ZAC-327			
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	ATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	ONT NO
8550	4365T	PIPER	LYC			DRAIN TUBE	CHAFED		8/25/97	
	327200019	PA32260	O540E4B5			68761	NR 2 CYLINDER		97ZZZX4	4186
8550	4365T	PIPER	LYC	S, AGAIN, 1RIM BOIT	LE KETAINER. NU	DRAIN TUBE	A GOOD SUBSTITUTE FOR CHAFED	ADEL CLA	8/25/97	
	327200019	PA32260	O540E4B5			71737	NR 2 ROCKER		97ZZZX4	4185
							AINER (PIN EASILY PENET A GOOD SUBSTITUTE FOR			ALL')
7320	34ME	PIPER	CONT			FITTING	BROKEN		8/1/97	
VIB3	347870045	PA34200T	TSIO360*		6405636A1	630119	LT ENGINE		97ZZZX4	4207
****	FROM COWLING		REMOVED AND REP	LACED BROKEN FITT	TINGS. LEAK AND		GHT ON OTHER ENGINE TO APPEARED DAMAGED BY			



INTERNATIONAL SERVICE DIFFICULTY REPORT



INTER	RNATIONAL	L SERVICE D	IFFICULTY	REPORT S	UMMARY	- AIRCRAFT	9/28/97 TO 10/4/97	ISSUE	97-40 ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
								WD	
							1	#Error	
							į	#Error	
	#Error								

INTER	RNATIONAL	L SERVICE D	IFFICULTY	REPORT -	HELICOPT	ERS	9/28/97 TO 10/4/97	ISSUE	97-40 ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
								#Error	
								#EIIOI	
								#Error	
	#Error								

INTER	NATIONAL	SERVICE DI	FFICULTY	REPORT SU	UMMARY -	- ENGINES	9/28/97 TO 10/4/97	ISSUE	97-40	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	NT NO
0.720		D-D-D-D	LVC			***************************************	ac aver	1010	2/27/27	
8530		PIPER	LYC			VALVE SEAT	COCKED	1010	3/25/97	
		PA32RT300T	TIO540S1AD				#6 CYL EXHAUST		CA970715	019
	` '					AL OF THE CYLINDER IT W OF COMPRESSION AND CA				D LIFTED



SERVICE DIFFICULTY REPORT SUMMARY

GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

SENERAL AVIATION	N SUMMA	RY INDEX				9/28/97 TO 10	/4/97 ISSUE	97-40	ZAC-327
DISTRICT				LS BY FAA A					
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 05	0	0	0	0	0	0	1	0	1
CA	0	0	0	0	0	0	0	1	1
CE 09	0	0	0	0	1	0	0	0	1
EA 01	0	0	0	0	0	0	1	2	3
EA 07	0	0	1	0	0	0	0	1	2
EA 11	0	1	0	0	1	0	0	0	2
EA 17	0	0	1	0	0	1	0	0	2
EA 23	0	0	0	0	0	0	0	1	1
GL 21	0	0	0	0	0	0	1	0	1
GL 25	0	0	0	0	0	0	0	1	1
NM 03	0	0	1	0	0	0	0	0	1
NM 09	0	0	1	0	0	0	0	0	1
NM 11	0	0	1	0	0	0	0	0	1
SO 03	0	0	0	0	0	0	1	0	1
SO 33	0	0	0	0	0	0	0	1	1
SW 99	0	0	0	0	1	0	0	0	1
WP 01	0	0	1	0	0	0	0	0	1
WP 05	0	0	0	0	0	0	1	0	1
WP 13	0	1	0	0	0	1	0	0	2
WP 19	0	0	1	0	0	0	0	0	1
TOTALS	0	2	7	0	3	2	5	7	26

GENERAL	AVIATION	SUMMARY	BY M	ANUFACT.	MAKE A	ND MODEL	9/28/	97 TO 10/4/97	ISSUE 97-40	ZAC-327
AIRCRAFT	AIRCRAFT			SDR TOTAL	LS BY FAA A	TA SYSTEM CHA	PTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
BEECH	B200	0	0	1	0	0	0	0	0	1
CESSNA	150L	0	0	0	0	0	0	1	0	1
CESSNA	152	0	0	0	0	0	1	0	0	1
CESSNA	172RG	0	0	1	0	0	0	0	0	1
CESSNA	402B	0	0	1	0	0	0	0	0	1
DIAMON	DA20A1	0	0	0	0	0	0	1	0	1
GROB	G103ATWINII	0	0	0	0	1	0	0	0	1
GULSTM	112	0	0	1	0	0	0	0	0	1
GULSTM	500B	0	0	1	0	0	0	0	0	1
HELIO	H295	0	0	0	0	0	0	0	1	1
LUSCOM	8A	0	0	0	0	1	0	0	0	1
MAULE	M6235	0	0	0	0	0	0	1	0	1
MOONEY	M20F	0	0	0	0	0	0	0	1	1
PIPER	PA23250	0	0	0	0	1	0	0	0	1
PIPER	PA28140	0	1	0	0	0	0	0	0	1
PIPER	PA31P	0	0	0	0	0	0	0	1	1
PIPER	PA31P350	0	0	1	0	0	0	0	0	1
PIPER	PA32260	0	0	0	0	0	0	1	3	4
PIPER	PA32RT300T	0	0	0	0	0	0	0	1	1
PIPER	PA34200	0	0	1	0	0	0	0	0	1
PIPER	PA34200T	0	0	0	0	0	0	1	0	1
SNIAS	AS350B	0	0	0	0	0	1	0	0	1
SNIAS	AS350BA	0	1	0	0	0	0	0	0	1
,	TOTALS	0	2	7	0	3	2	5	7	26

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

<u>11 P</u>	LACARDS AND MARKINGS	22 A	UTO FLIGHT	<u> 24 E</u>	LECTRICAL POWER CONT'D		
1100	PLACARDS AND MARKINGS	2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR		
		2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM		
12 S	ERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM		
		2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM		
1210	FUEL SERVICING	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM		
1210	OIL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER		
1230	HYDRAULIC FLUID SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR		
1240	COOLANT SERVICING	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR		
1240	COOLAINT SERVICING	2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR		
18 HELICOPTER VIBRATION		2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM		
		2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM		
1800	HELICOPTER VIB/NOISE ANALYSIS			2450	AC POWER DISTRIBUTION SYSTEM		
1810	HELICOPTER VIBRATION ANALYSIS	<u>23 C</u>	OMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM		
1820	HELICOPTER NOISE ANALYSIS	0000	00444444040474044				
21 Δ	IR CONDITIONING	2300	COMMUNICATIONS SYSTEM	<u>25 E</u>	QUIPM ENT/FURNISHINGS		
<u></u>	THE CONDITIONING	2310	HF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS		
2100	AIR CONDITIONING SYSTEM	2311	UHF COMMUNICATION SYSTEM				
2100 2110	AIR CONDITIONING SYSTEM CABIN COMPRESSOR SYSTEM	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT		
		2312 2320	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL				
2110	CABIN COMPRESSOR SYSTEM	2312 2320 2330	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM	2510 2520 2530	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT		
2110 2120 2121 2130	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM	2312 2320 2330 2340	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM	2510 2520	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS		
2110 2120 2121 2130 2131	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER	2312 2320 2330 2340 2350	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM	2510 2520 2530 2540	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES		
2110 2120 2121 2130	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR	2312 2320 2330 2340 2350 2360	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM	2510 2520 2530 2540 2550	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS		
2110 2120 2121 2130 2131 2132 2133	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE	2312 2320 2330 2340 2350	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM	2510 2520 2530 2540 2550 2551	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM		
2110 2120 2121 2130 2131 2132	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR	2312 2320 2330 2340 2350 2360 2370	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM	2510 2520 2530 2540 2550 2551 2560	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT		
2110 2120 2121 2130 2131 2132 2133	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE	2312 2320 2330 2340 2350 2360 2370	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER	2510 2520 2530 2540 2550 2551 2560 2561	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM	2312 2320 2330 2340 2350 2360 2370 24 E	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEMPERATURE CONTROL SYSTEM	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161 2162	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER CABIN TEM PERATURE INDICATOR	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420 2421	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM AC GENERATOR-ALTERNATOR	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564 2565	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT ESCAPE SLIDE		
2110 2120 2121 2130 2131 2132 2133 2134 2140 2150 2160 2161	CABIN COMPRESSOR SYSTEM AIR DISTRIBUTION SYSTEM AIR DISTRIBUTION FAN CABIN PRESSURE CONTROL SYSTEM CABIN PRESSURE CONTROLLER CABIN PRESSURE INDICATOR PRESSURE REGUL/OUTFLOW VALVE CABIN PRESSURE SENSOR HEATING SYSTEM CABIN COOLING SYSTEM CABIN TEM PERATURE CONTROL SYSTEM CABIN TEM PERATURE CONTROLLER	2312 2320 2330 2340 2350 2360 2370 24 E 2400 2410 2420	VHF COMMUNICATION SYSTEM DATA TRANSMISSION AUTO CALL ENTERTAINMENT SYSTEM INTERPHONE & PA SYSTEM AUDIO INTEGRATING SYSTEM STATIC DISCHARGE SYSTEM AUDIO/VIDEO MONITORING ELECTRICAL POWER ELECTRICAL POWER SYSTEM ALTERNATOR-GENERATOR DRIVE AC GENERATION SYSTEM	2510 2520 2530 2540 2550 2551 2560 2561 2562 2563 2564 2565 2570	FLIGHT COMPARTMENT EQUIPMENT PASSENGER COMPARTMENT EQUIPMENT BUFFET/GALLEYS LAVATORIES CARGO COMPARTMENTS AGRICULTURAL SPRAY SYSTEM EMERGENCY EQUIPMENT LIFE JACKET EMERGENCY LOCATOR BEACON PARACHUTE LIFE RAFT ESCAPE SLIDE ACCESSORY COMPARTMENT		

- v .	IKE TROTEGITOR		TO T		THE STATE OF THE
2600	FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610	DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611	SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612	FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613	OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620	EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621	FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622	FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
07 5	LIGHT CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
<u> 27 F</u>	LIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700	FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701	CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710	AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711	AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720	RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721	RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722	RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730	ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731	ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740	STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741	STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742	STABILIZER ACTUATOR	30 10	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750	TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751	TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752	TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760	DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761	DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	22 I	<u>IGHTS</u>
2770	GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL	<u>33 L</u>	<u> </u>
2780	LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781	LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782	LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 F	IIFI	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
		31 II	NSTRUMENTS	3340	EXTERIOR LIGHTING
2800	AIRCRAFT FUEL SYSTEM		INDICATING/RECORDING SYSTEM	3350	EMERGENCY LIGHTING
2810	FUEL STORAGE	3100		34 N	AVIGATION
2820	ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL		
2821	ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822	FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823	FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL MARNING	3411	PITOT/STATIC SYSTEM
2824	FUEL TRANSFER VALVE	3150	CENTRAL BIGBLAY	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830	FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATION
2840	ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841	FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842	FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843	FUEL TEMPERATURE INDICATING				

32 LANDING GEAR

29 HYDRAULIC POWER

26 FIRE PROTECTION

2844 FUEL PRESSURE INDICATOR

34 NA	VIGATION CONT'D	<u>37 V</u>	ACUUM_	5247	APU DOORS
3417	AIR DATA COMPUTER	3700	VACUUM SYSTEM	5248	TAIL CONE DOORS
	STALL WARNING SYSTEM	3710	VACUUM DISTRIBUTION SYSTEM	5250	FIXED INNER DOORS
	ATTITUDE AND DIRECTION DATA SYSTEM	3720	VACUUM INDICATING SYSTEM	5260	ENTRANCE STAIRS
	ATTITUDE GYRO & IND. SYSTEM			5270	DOOR WARNING SYSTEM
	DIRECTIONAL GYRO & IND. SYSTEM	<u>38 W</u>	/ATER/WASTE	5280	LANDING GEAR DOORS
	MAGNETIC COMPASS	3800	WATER & WASTE SYSTEM	<u>53 F</u>	<u>USELAGE</u>
3424	TURN & BANK/RATE OF TURN INDICATOR	3810	POTABLE WATER SYSTEM	5300	FUSELAGE STRUCTURE (GENERAL)
3425	INTEGRATED FLT. DIRECTOR SYSTEM	3820	WASH WATER SYSTEM	5301	A ERIAL TOW EQUIPMENT
3430	LANDING & TAXI AIDS	3830	WASTE DISPOSAL SYSTEM	5302	ROTORCRAFT TAIL BOOM
3431	LOCALIZER/VOR SYSTEM	3840	AIR SUPPLY (WATER PRESS. SYSTEM)	5310	FUSELAGE MAIN STRUCTURE
	GLIDE SLOPE SYSTEM	45 C	ENTRAL MAINT. SYSTEM	5311	FUSELAGE MAIN FRAME
	MICROWAVE LANDING SYSTEM			5312	FUSELAGE MAIN BULKHEAD
	MARKER BEACON SYSTEM	4500	CENTRAL MAINT. COMPUTER	5313	FUSELAGE MAIN LONGERON/STRINGER
	HEADS UP DISPLAY SYSTEM	40 4	IDDODNE ALIVILIADY DOWED	5314	FUSELAGE MAIN KEEL
	WIND SHEAR DETECTION SYSTEM	49 A	IRBORNE AUXILIARY POWER	5315	FUSELAGE MAIN FLOOR BEAM
	INDEPENDENT POS. DETERMINING SYSTEM	4900	AIRBORNE APU SYSTEM	5320	FUSELAGE MISCELLANEOUS STRUCTURE
	INERTIAL GUIDANCE SYSTEM	4910	APU COWLING/CONTAINMENT	5321	FUSELAGE FLOOR PANEL
	WEATHER RADAR SYSTEM	4920	A PU CORE ENGINE	5322	FUSELAGE INTERNAL MOUNT STRUCTURE
	DOPPLER SYSTEM	4930	APU ENGINE FUEL & CONTROL	5323	FUSELAGE INTERNAL STAIRS
	GROUND PROXIMITY SYSTEM	4940	APU START/IGNITION SYSTEM	5324	FUSELAGE FIXED PARTITIONS
	AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950	APU BLEED AIR SYSTEM	5330	FUSELAGE MAIN PLATE/SKIN
	NON RADAR WEATHER SYSTEM	4960	APU CONTROLS	5340	FUSELAGE MAIN ATTACH FITTINGS
	DEPENDENT POSITION DETERMINING SYSTEM	4970	APU INDICATING SYSTEM	5341	WING ATTACH FITTINGS (ON FUSELAGE)
	DME/TACAN SYSTEM	4980	APU EXHAUST SYSTEM	5342	STABILIZER ATTACH FITTINGS
	ATC TRANSPONDER SYSTEM	4990	APU OIL SYSTEM	5343	LANDING GEAR ATTACH FITTINGS
	LORAN SYSTEM			5344	FUSELAGE DOOR HINGES
3454	VOR SYSTEM	<u>51 S</u>	TANDARD PRACTICES/STRUCTURES	5345	FUSELAGE EQUIPMENT ATTACH FITTINGS
	ADF SYSTEM	5100	STANDARD PRACTICES/STRUCTURES	5346	POWERPLANT ATTACH FITTINGS
	OMEGA NAVIGATION SYSTEM	5101	AIRCRAFT STRUCTURES	5347	SEAT/CARGO ATTACH FITTINGS
	GLOBAL POSITIONING SYSTEM	5102	BALLOON REPORTS	5350	FUSELAGE AERODYNAMIC FAIRINGS
3460	FLIGHT MANAGE. COMPUTING SYSTEM	3102	BALLOON KET OKTO	<u>54 N</u>	ACELLES/PYLONS
<u>35 OX</u>	<u>(YGEN</u>	<u>52 D</u>	<u>oors</u>	5400	NACELLE/PYLON STRUCTURE
3500	OXYGEN SYSTEM			5410	MAIN FRAME (ON NACELLE/PYLON)
	CREW OXYGEN SYSTEM	5200	DOORS	5411	FRAME/SPAR/RIB(NACELLE/PYLON)
	PASSENGER OXYGEN SYSTEM	5210	PASSENGER/CREW DOORS	5412	BULKHEAD/FIREWALL (NAC/PYLON)
	PORTABLE OXYGEN SYSTEM	5220	EM ERGENCY EXIT	5413	LONGERON/STRINGER (NAC/PYLON)
		5230	CARGO/BAGGAGE DOORS	5414	PLATE SKIN (NAC/PYLONS)
<u>36 PN</u>	<u>EUMATIC</u>	5240	SERVICE DOORS	5415	ATTACH FITTINGS (NAC/PYLON)
3600	PNEUMATIC SYSTEM	5241	GALLEY DOORS	55 S	TABILIZERS
	PNEUMATIC DISTRIBUTION SYSTEM	5242	E/E COMPARTMENT DOORS		
	PNEUMATIC INDICATING SYSTEM	5243	HYDRAULIC COMPARTMENT DOORS	5500	EM PENNAGE STRUCTURE
		5244	ACCESSORY COMPARTMENT DOORS	5510	HORIZONTAL STABILIZER STRUCTURE
		5245	AIR CONDITIONING COMPART. DOORS	5511	HORIZONTAL STABILIZER SPAR/RIB
		5246	FLUID SERVICE DOORS	5512	HORIZONTAL STABILIZER PLATE/SKIN
				5513	HORIZONTAL STABILIZER TAB STRUCTURE
				5520	ELEVATOR STRUCTURE

5521 ELEVATOR SPAR/RIB STRUCTURE 6100 PROPELLER SYSTEM 6700 ROTORCRAFT FLIGHT CONTROL 5522 ELEVATOR PLATES/SKIN STRUCTURE 6110 PROPELLER ASSEMBLY 6710 MAIN ROTOR CONTROL 5523 ELEVATOR TAB STRUCTURE 6111 PROPELLER BLADE SECTION 6711 TILT ROTOR FLIGHT CONTROL	
5522 ELEVATOR PLATES/SKIN STRUCTURE 6110 PROPELLER ASSEMBLY 6710 MAIN ROTOR CONTROL	
5530 VERTICAL STABILIZER STRUCTURE 6112 PROPELLER DE-ICE BOOT SECTION 6720 TAIL ROTOR CONTROL SYSTEM	
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE 6113 PROPELLER SPINNER SECTION 6730 ROTORCRAFT SERVO SYSTEM	
5532 VERTICAL STABILIZER PLATES/SKIN 6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB) 6120 PROPELLER CONTROL SYSTEM 71 POWERPLANT	
5540 RUDDER STRUCTURE 6121 PROPELLER SYNCHRONIZER SECTION 7100 POWERPLANT SYSTEM	
5541 RUDDER SPAR/RIB STRUCTURE 6122 PROPELLER GOVERNOR 7110 ENGINE COWLING SYSTEM	
5542 RUDDER PLATE/SKIN STRUCTURE 6123 PROPELLER FEATHERING/REVERSING 7111 COWL FLAP SYSTEM	
5543 RUDDER TAB STRUCTURE 6130 PROPELLER BRAKING 7112 ENGINE AIR BAFFLE SECTION	
5550 EMPENNAGE FLT. CONT. ATTACH FITTING 6140 PROPELLER INDICATING SYSTEM 7120 ENGINE MOUNT SECTION	
5551 HORIZONTAL STABILIZER ATTACH FITTING	
5552 ELEVATOR/TAB ATTACH FITTINGS 62 MAIN ROTOR 7160 ENGINE AIR INTAKE SYSTEM	
5553 VERT. STAB. ATTACH FITTINGS 6200 MAIN ROTOR SYSTEM 7170 ENGINE DRAINS	
5554 RUDDER/TAB ATTACH FITTINGS 6210 MAIN ROTOR BLADES	
6220 MAIN ROTOR HEAD <u>72 TURBINE/TURBOPROP ENGINE</u>	
56 WINDOWS 6230 MAIN ROTOR MAST/SWASHPLATE 7200 ENGINE (TURBINE/TURBOPROP)	
5600 WINDOW/WINDSHIELD SYSTEM 6240 MAIN ROTOR INDICATING SYSTEM 7210 TURBINE ENGINE REDUCTION GEAL	R
5040 FLICHT COMPARTMENT WINDOWS 7220 TURRINE ENGINE AIR INLET SECTION	
5620 PASSENGER COMPARTMENT WINDOWS 63 MAIN ROTOR DRIVE 7220 TORBINE ENGINE ANT INCELL SECTION 7230 TURBINE ENGINE COMPRESSOR SE	
5630 DOOR WINDOWS 6300 MAIN ROTOR DRIVE SYSTEM 7240 TURBINE ENGINE COMBUSTION SE	
5640 INSPECTION WINDOWS 6310 ENGINE/TRANSMISSION COUPLING 7250 TURBINE SECTION	.011011
6320 MAIN ROTOR GEARBOX 7260 TURBINE ENGINE ACCESSORY DRIV	\/F
57 WINGS 6321 MAIN ROTOR BRAKE 7261 TURBINE ENGINE OIL SYSTEM	v L
POTOPOPART COOLING FAN SYSTEM	d
WING STRUCTURE	•
5710 WING WAIN FRAME STRUCTURE	
Wing Spar Structure	
64 IAIL ROTOR	
5713 WING LONGERON/STRINGER 7310 ENGINE FUEL DISTRIBUTION 5714 WING CENTER BOX 6400 TAIL ROTOR SYSTEM 7311 ENGINE FUEL-OIL COOLER	
With Middle Midd	
5730 WING PLATES/SKINS 6420 TAIL ROTOR HEAD 7313 FUEL INJECTOR NOZZLE	
5740 WING ATTACH FITTINGS 6440 TAIL ROTOR INDICATING SYSTEM 7314 ENGINE FUEL PUMP	
5741 WING, FUSELAGE ATTACH FITTINGS 65 TAIL ROTOR DRIVE 7320 FUEL CONTROLLING SYSTEM	
Wind, NAC/FILON ATTACH FITTINGS ————————————————————————————————————	
5743 WING, LANDING GEAR ATTACH FITTINGS 6500 TAIL ROTOR DRIVE SYSTEM 7322 FUEL CONTROL/CARBURETOR	
5744 CONTROL SURFACE ATTACH FITTINGS 6510 TAIL ROTOR DRIVE SHAFT 7323 TURBINE GOVERNOR	
5750 WING CONTROL SURFACE STRUCTURE 6520 TAIL ROTOR GEARBOX 7324 FUEL DIVIDER	
5751 AILERON STRUCTURE 6540 TAIL ROTOR DRIVE INDICATING SYSTEM 7330 ENGINE FUEL INDICATING SYSTEM	
5752 AILERON TAB STRUCTURE 7331 FUEL FLOW INDICATING	
5753 TE FLAP STRUCTURE 7332 FUEL PRESSURE INDICATING	
5754 LEADING EDGE DEVICE STRUCTURE 7333 FUEL FLOW SENSOR 5755 SPOILER STRUCTURE 7334 FUEL PRESSURE SENSOR	

<u>74</u>	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	853
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	854 855
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	833
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR	
7412	EXCITER	7830	THRUST REVERSER	
7413	INDUCTION VIBRATOR			
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL	
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>		
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)	
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)	
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)	
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER	
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR	
7510		7923	OIL SHUTOFF VALVE	
7520		7930	ENGINE OIL INDICATING SYSTEM	
7530		7931	ENGINE OIL PRESSURE	
7531		7932	ENGINE OIL QUANTITY	
		7933	ENGINE OIL TEMPERATURE	
7532 7540				
7540	BLEED AIR INDICATING SYSTEM	80 9	STARTING .	
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM	
7600	ENGINE CONTROLS	8010	ENGINE CRANKING	
7601		8011	ENGINE STARTER	
7602		8012	ENGINE START VALVES/CONTROLS	
7603				
7620		<u>81 </u>	TURBOCHARGING	
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)	
<u>77</u>	ENGINE INDICATING	8110	POWER RECOVERY TURBINE (RECIP)	
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER	
7710	POWER INDICATING SYSTEM			
7711	ENGINE PRESSURE RATIO (EPR)	82	WATER INJECTION	
7712		8200	WATER INJECTION SYSTEM	
7713	MANIFOLD PRESSURE (MP) INDICATING	0200	With Elit Intelection of orein	
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES	
7720	ENGINE TEMP. INDICATING SYSTEM	-		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	8300	ACCESSORY GEARBOXES	
7722	ENG. EGT/TIT INDICATING SYSTEM	85	DECIDENCATING ENGINE	
7730	ENGINE IGNITION ANALYZER SYSTEM	0.0	RECIPROCATING ENGINE	
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)	
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTION	N
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	NC

RECIPROCATING ENGINE CYLINDER SECTION RECIPROCATING ENGINE REAR SECTION RECIPROCATING ENGINE OIL SYSTEM

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.